



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No. : 10/777,414
Applicant : Alberto Menache and Mark Sturza
Filed : 02-11-04
Art Unit : Unassigned
Examiner : Unassigned
Title : RADIO FREQUENCY MOTION TRACKING SYSTEM AND
METHOD

Docket No.: : MENAH-66588
Customer No. : 24201

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to the duty of disclosure and 37 C.F.R. § 1.97(b), enclosed is Form PTO/SB/08 listing art which may be material to patentability of the invention. Copies of the cited foreign patent documents and non-patent literature documents are enclosed.

Applicant also brings to the examiner's attention the International Search Report from International Application No. PCT/US03/07514, which corresponds to U.S. Patent Application Serial No. 10/386,586, which is the parent of this continuation-in-part application. That International Search Report lists as "Y" documents (documents of particular relevance when combined with one or more other such documents) the following U.S. patents: 5,317,394 and 5,363,297. A copy of the International Search Report is enclosed. The International Search Report is not listed separately as a document on Form PTO/SB/08.

It is believed that these references will be helpful during examination of the application, and it is believed that no fee is due in connection with this paper. However, should a fee be



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TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

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Application Number	10/777,414
Filing Date	02-11-04
First Named Inventor	Alberto Menache
Group Art Unit	Unassigned
Examiner Name	Unassigned

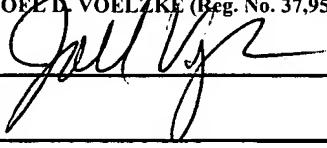
Attorney Docket Number

MENAH-66588

ENCLOSURES (check all that apply)

<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Assignment Papers (for an Application)	<input type="checkbox"/> After Allowance Communication to Group
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<input checked="" type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> Request for Refund	
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<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		
Remarks		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	JOEL D. VOELZKE (Reg. No. 37,957) 
Signature	
Date	February 27, 2004

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:

Typed or printed name	JOEL D. VOELZKE	Date	February 27, 2004
Signature			

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quired, the Commissioner is authorized to charge any fee due in connection with this matter to Deposit Account No. 06 2425. A duplicate copy of this paper is enclosed.

DATED: February 27, 2004

Respectfully submitted,

FULWIDER PATTON LEE & UTECHT, LLP

By:



Joel D. Voelzke
Attorneys for Applicant

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Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	10/777,414
				Filing Date	02-11-04
				First Named Inventor	Alberto Menache
				Art Unit	Unassigned
				Examiner Name	Unassigned
Sheet	2	of	4	Attorney Docket Number	MENAH-66588

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <i>(if known)</i>			
		US- 6,127,672		10/03/2000	Danisch	
		US- 6,148,280		11/14/2000	Kramer	
		US- 6,157,592		12/05/2000	Kriz, et al.	
		US- 6,172,499		01/09/2001	Ashe	
		US- 6,176,837		01/23/2001	Foxlin	
		US- 6,181,371		01/30/2001	Macquire, Jr.	
		US- 6,204,813		03/20/2001	Wadell, et al.	
		US- 6,269,172		07/31/2001	Rehg, et al.	
		US- 6,272,231		08/07/2001	Mauer, et al.	
		US- 6,288,785		09/11/2001	Frantz, et al.	
		US- 6,324,296		11/27/2001	McSheery, et al.	
		US- 6,369,564		04/09/2002	Khalfin	
		US- 6,380,894	B1	04/30/2002	Boyd et al	
		US- 6,400,139		06/04/2002	Khalfin, et al.	
		US- 6,409,687		06/25/2002	Foxlin	
		US- 6,428,490		08/06/2002	Kramer, et al.	
		US- 6,549,004		04/15/2003	Prigge	
		US- 6,563,107		05/13/2003	Danisch, et al.	
		US- 6,567,116		05/20/2003	Aman, et al.	
		US- 6,580,811		06/17/2003	Mauer, et al.	

FOREIGN PATENT DOCUMENTS

Examiner Signature		Date Considered	
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¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. Applicant is to place a check mark here if English language Translation is attached.

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Application Number	10/777,414
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Examiner Name	Unassigned

Sheet

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of

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Examiner Initials	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
		US- 4,660,039		04/21/1987	Barricks, et al.	
		US- 5,056,106		10/08/1991	Wang, et al.	
		US- 5,317,394	A	05/31/1994	Hale et al.	
		US- 5,363,297	A	11/08/1994	Larson, et al.	
		US- 5,438,321		08/01/1995	Bernard, et al.	
		US- 5,450,070		09/12/1995	Mussar, et al.	
		US- 5,458,123		10/17/1995	Unger	
		US- 5,513,854		05/07/1996	Daver	
		US- 5,581,257		12/03/1996	Greene, et al.	
		US- 5,583,517		12/10/1996	Yokev, et al.	
		US- 5,729,475		03/17/1998	Romanik, Jr.	
		US- 5,802,220		09/01/1998	Black, et al.	
		US- 5,831,260		11/03/1998	Hansen	
		US- 5,884,239		03/16/1999	Romanik, Jr.	
		US- 6,005,548		12/21/1999	Latpov, et al.	
		US- 6,050,962		04/18/2000	Kramer, et al.	
		US- 6,070,269		06/06/2000	Tardif, et al.	
		US- 6,095,928		08/01/2000	Goszyk	
		US- 6,104,379		08/15/2000	Petrich, et al.	
		US- 6,115,052		09/05/2000	Freeman, et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴				
		JP 1	10-7429	03/17/1998	Japan Radio Co. Ltd.		
		JP 4	10-222668	08/21/1998	Syst Skomu:KK		
		WO 1	98/41815	09/24/1998	Canadian Space Agency		
		JP 1	10-261090	09/29/1998	Tokyo Electric Power Co. Inc		
		WO 1	98/47426	10/29/1998	Virtual Technologies, Inc.		
		WO 1	99/53443	10/21/1999	Elagin et al.		
		JP 7	2000-146509	05/26/2000	Agency of Ind Science		
		JP 7	2000-231638	08/22/2000	Namco Ltd.		
		WO 1	01/09861	02/08/2001	Fulcher		
		WO 1	01/35208	05/17/2001	Hwang		

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Substitute for form 1449B/PTO				Complete if Known	
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Sheet	4	of	4	First Named Inventor	Alberto Menache
				Group Art Unit	Unassigned
				Examiner Name	Unassigned
				Attorney Docket Number	MENAH-66588

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS		
Examiner Initials ¹	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	X	REYNOLDS MATTHEW; "A Phase Measurement Radio Positioning System for Indoor Use"; MIT; February 3, 1999
	X	LANCASTER, DON; "Tech Musings"; Number 135; April 1999.
	X	HIGHTOWER, JEFFREY, et al; "SpotON" An Indoor 3D Location Sensing Technology Based on RF Signal Strength"; UW CSE Technical Report #2000-02-02; February 18, 2000
	X	HIGHTOWER, JEFFREY and GAETANO BORRIELLO; "Location Systems for Ubiquitous Computing"; IEEE Computer Magazine; August 2001.
		FOXLIN, ERIC; "Motion Tracking Requirements and Technologies"; Extended draft versino of Chapter 8 in Handbood of Virtual Environment Technology; Kay Stanney, Ed.; Lawrence Erlbaum Associates; 2002
	X	KITASUKA, TERUKAI, et al.; "Location Estimation System Using Wireless Ad-Hoc Network"; 2002.
		TRAKUS, INC.; Various pages from http://www.trakus.com ; displaying "Copyright 2002" and printed on December 16, 2003.
		MENACHE, ALBERTO, "Understanding Motion Capture for Computer Animation and Video Games" Academic Press 2000 (pp. vii-ix, xiii-xiv, 1-2, 14-37, 205-206)

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